

# UNITED STATES PATENT AND TRADEMARK OFFICE

## CERTIFICATE OF CORRECTION

Page 1 of 2

PATENT NO. : 7,305,056 B2

APPLICATION NO.: 10/715,582

ISSUE DATE : December 4, 2007

INVENTOR(S) : Brian William Kroeger

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 8, Line 9

$$y_{n,m}=2\cdot(1-\beta)\cdot y_{n-1,m}-(1-\beta)^2\cdot y_{n-2,m}+\beta^2\cdot x$$
 should read  $y_{n,m}=2\cdot(1-\beta)\cdot y_{n-1,m}-(1-\beta)^2\cdot y_{n-2,m}+\beta^2\cdot x_{n,m}$ 

Column 9, Line 21

"...estimate of the coherent reference gain [a]  $\alpha$  for each QPSK..."

Column 11, Line 9

"...locally to[, ] the transient, but..."

Column 13, Line 18

Table 1 shows the input values of [ax]  $\alpha$  and....

Column 13, Table 1

Corrected result  $\alpha$ 

$\alpha_{n-5}$	$\alpha_{n-4}$	$\alpha_{n-4}$	$\alpha_{n-4}$	$\alpha_{n-4}$	$\frac{\alpha_{n-2} + \alpha_{n+4}}{2}$	$\alpha_{n+4}$	$\alpha_{n+4}$	$\alpha_{n+4}$	$\alpha_{n+4}$	$\alpha_{n+5}$
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should read

$\alpha_{n-5}$	$\alpha_{n-4}$	$\alpha_{n-4}$	$\alpha_{n-4}$	$\alpha_{n-4}$	$\frac{\alpha_{n-4} + \alpha_{n+4}}{2}$	$\alpha_{n+4}$	$\alpha_{n+4}$	$\alpha_{n+4}$	$\alpha_{n+4}$	$\alpha_{n+5}$
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Column 13, Line 62

... channel gain values [a]  $\alpha$  in the vicinity....

Column 14, Line 56

"...and  $\text{var}1_n$  on line [3] 330  $\text{var}1_n = \max \dots$ "

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